

ABSTRACT OF DISCLOSURE

This invention relates to the method of securing a bicycle handlebar stem to the front wheel fork steerer tube in a manner that is both safe and convenient for the operator. The steering assemblies improve in the two areas – handlebar height adjustability and rotation of the handlebar and stem for easy storage. A steering assembly is provided where the handlebar stem is moveably fastened to the front fork steerer tube using a manually operated primary locking device and requiring a secondary action to allow for movement in the form of either height adjustment, or rotation, or both. The connection between the handlebar stem and the front fork steerer tube can be on the interior or the exterior of the front fork steerer tube. With the interior connection, the steerer tube can be elongated to extend above the top of the headset bearings where it is fitted with a collar for clamping onto the internally mounted stem. The handlebar stem and fork steerer tube are fitted with corresponding octagonal or other cross sectional shapes, or a safety tracking system. For bicycles equipped with handlebar stems which clamp to the outside of the fork steerer tube, the handlebar stem is equipped with a safety lock and can be rotated for storage with no height adjustability. Some existing bicycles or wheeled vehicles can be retrofitted with the present invention.